

Plant Name:

Louisville Metro Air Pollution Control District

Control Device Permit Application Form AP-300H

Condenser

Mail application to: 850 Barret Avenue Louisville, KY 40204 OR

e-mail to: airpermits@louisvilleky.gov

(502) 574-6000 FAX: (502) 574-5137 www.louisvilleky.gov/apcd

Plant Name:				Plant ID
Date of construction installation, or opera		Control equip	ment associated	
instantation, or opera	uon.	with this proce	ess equipment.	
Equipment Desc	ription			
Manufacturer:			Model:	
Condenser type:	Shell and tube	☐ Flat plate	☐ Direct contact	Contact area:
Coolant	Water	Other liquid:		Air
	Temperature:	Inlet - °	Outlet - °	Flow rate:
Exhaust Stream	Contact Time:	sec	Removal Efficiency	%
	Temperature:	Inlet - °	Outlet - °	Flow rate:
		sheets for the equipment was that are removed by cond		
Contaminant			CAS # (if applicable)	Gas stream concentration

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Instructions for Condenser

Form AP-300H

Condensers control gaseous pollutants by cooling them below their vapor/liquid phase transition temperature.

General Information

Plant Name Enter the plant name.

Plant ID This is the identification number assigned to the source by the District. If this

application is for a new source for which an ID has not been assigned, leave this

blank.

Equipment Description

Manufacturer Enter the name of the company that manufactures the condenser equipment.

Model Enter the model number of the equipment to be installed.

Condenser type Check the box that best describes the condenser, and enter the effective contact area.

Coolant Check whether the coolant is water, air, or some other fluid, which must be

specified.

Temperature Enter the inlet and outlet temperatures of the coolant (indicating whether Fahrenheit

or Celsius degrees) and the flow rate of the coolant.

Exhaust stream Enter the inlet and outlet temperatures of the exhaust stream (indicating whether

Fahrenheit or Celsius degrees) and the flow rate of the gas. Also indicate the time the exhaust stream is in contact with the coolant and the expected fraction of

pollutant that is removed from the exhaust stream.

Efficiency determination Indicate how the destruction efficiency was determined. (e.g. manufacturer's

specification, calculation, stack test, etc). Include appropriate documentation to

support destruction efficiency claims.

Breakthrough capacity Enter the capacity of the bed at which contaminant vapors begin to be found in the

exhaust stream (in amounts exceeding that expected based on the removal

efficiency.)

Contaminant list List the materials that are removed from the airstream by the condenser. If a CAS

registration number exists for the material, list that as well. Finally, list the typical

concentration of the contaminant in the exhaust gas stream.

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